PERFORMANCE ENHANCING BREAK-IN METHOD FOR A PEM FUEL CELL

Abstract of the Disclosure

5 A performance enhancing break-in method for a proton exchange membrane ("PEM") fuel cell (12) includes cycling potentials of an anode electrode (14) and a cathode electrode (16) from a first potential to a second potential and back to the first potential, and repeating 10 the cycling for each electrode (14, 16) for at least two electrode cycles. The potential cycling may be achieved in a first embodiment by applying a direct current from a programmable direct current power source (80) to the electrodes. Alternatively the potential cycling may be 15 achieved by varying reactants to which the anode and cathode electrodes (14, 16) are exposed.